

① Solve for y

$$\textcircled{a} \quad \begin{array}{c} 3x + y = 7 \\ -3x \qquad -3x \\ \hline y = 7 - 3x \end{array}$$

$$\textcircled{b} \quad \begin{array}{c} 2y = \frac{8x+4}{2} \\ \hline y = \frac{8x+4}{2} \\ \hline y = 4x + 2 \end{array}$$

$$\textcircled{c} \quad \begin{array}{c} 2x + 4y = -7 \\ -2x \qquad -2x \\ \hline 4y = \frac{-7}{4} - \frac{2x}{4} \\ \hline y = -1.75 - 0.5x \end{array}$$

② Identify the slope

$$\textcircled{a} \quad y = 2x + 5$$

$$\textcircled{b} \quad 2 + 3x = y$$

$$\textcircled{c} \quad y = -2(x+4) - 7$$

$$\textcircled{d} \quad 5 - 3(x+1) = y$$

(10)

Plan A

$$y = 15 + 0.02x$$

$$\frac{1000 \text{ calls}}{15 + 20 = \$35}$$

$$\frac{2000}{15 + 40 = 55}$$

Plan B

$$y = 0.03$$

\$30

\$60

$$\frac{A}{15 + 30 = \$45}$$

$$\frac{B}{\$45}$$

Bug attack

I notice 16 bugs
one day. The next
week there are 50%
more. The next 50%
more, etc.

$$\text{Ans} \div 2 + \text{Ans}$$

$$\text{Ans} + \text{Ans} \cdot \frac{1}{2}$$

Recursive routine

WK	Bugs
start (0)	16
1	24
2	36
3	54
4	81
5	121.5 \rightarrow 122
6	182.25 \rightarrow 182
7	273.375 \rightarrow 273
8	410
9	615
10	922.5 \rightarrow 923

Investments - start \$10,000

Plan A
\$550/yr.

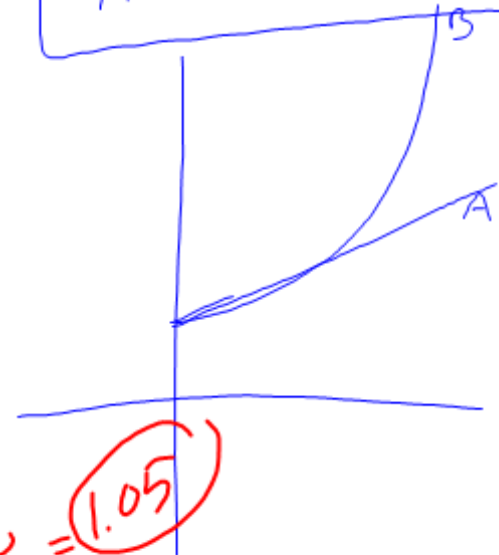
10000(E)

Ans + 550

Year	Plan A	Plan B
0	10000	10,000
1	10550	10,500
2	11,100	11,025
3	11650	11,576
4	12200	12,155
5	12750	12,762
6	13300	13,400
7	13850	14,071
8	14400	14,774
9	14950	15,513
10	15500	16,288
100	65,000	1,315,013

Plan B
5% (0.05)
year

Ans + 0.05Ans



$$\frac{10,500}{10,000} = 1.05$$

Do 7.1
#2, 3, 5

• Turn in classwork

• Hw 7.1 #1, 4